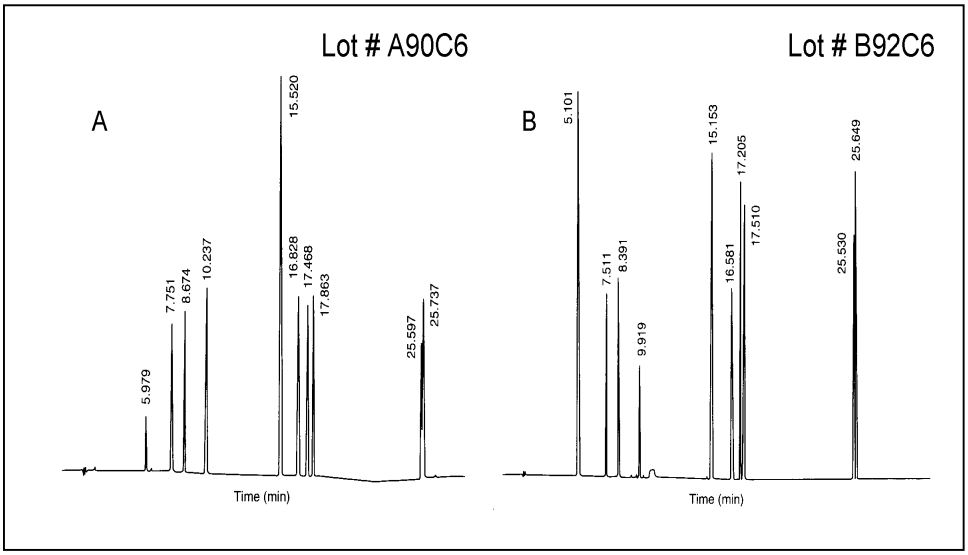
Lot-to-Lot Reproducibility
Amphetamines

Application

Technical

Robert Ricker

1. Morphine	6. Acetophenone
2. Amphetamine	7. Desipramine
3. Methamphetamine	8. Imipramine
4. Ethylmorphine	9. Phenylbutazone
5. Salicylic Acid	10. Mefenamic Acid



Conditions:
ZORBAX Rx-C8 (4.6 x 250mm) Agilent (P/N: 880967-901)
Gradient: 0% B 2.2 min, then 0-100% B in 30 min.
Mobile Phase: A=1% Phosphoric Acid, 0.7% TFA
B= 80% ACN + 20% A (above)
2 mL/min; 40°C; Detect. UV(254 nm)

Highlights

- *High reproducibility in elution patterns of basic drugs demonstrates the careful lot-to-lot manufacture of ZORBAX Rx and StableBond columns.*
- *Each step in the manufacture of ZORBAX columns must exceed stringent quality assurance specifications. Finally, each column from the lot must pass a set of quality control specifications.*
- *Consistent elution and good peak shape of these "silanol-sensitive" basic drugs results from the extremely homogenous silanol surface and low acidity of ZORBAX Rx-SIL.*

Agilent Technologies

Robert Ricker is an application chemist based at Agilent Technologies, Wilmington, Delaware.

For more information on our products and services, visit our website at:
www.agilent.com/chem

Copyright© 2002 Agilent Technologies, Inc. All Rights Reserved. Reproduction, adaptation or translation without prior written permission is prohibited, except as allowed under the copyright laws.

Agilent shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Information, descriptions, and specifications in this publication are subject to change without notice.

Printed in the USA
April 25, 2002
5988-6471EN

Agilent Technologies